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# (12) UK Patent Application (19) GB (11) 2 392 074 (13) A

(43) Date of A Publication 25.02.2004

(21) Application No: 0219483.5

(22) Date of Filing: 21.08.2002

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(51) INT CL<sup>7</sup>:  
A01K 97/06

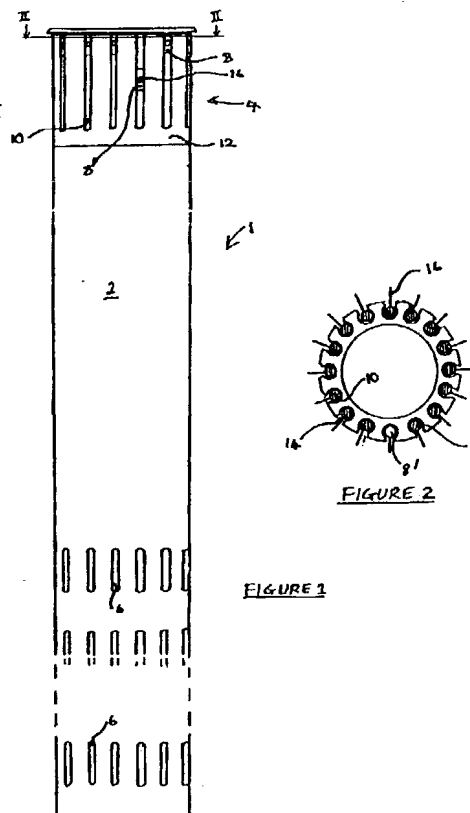
(52) UK CL (Edition W):  
A1A A13

(56) Documents Cited:  
US 5386662 A US 2658300 A  
US 2624973 A US 1737376 A  
US 1715567 A US 1451256 A  
US 0742040 A US 0337593 A

(58) Field of Search:  
UK CL (Edition V) A1A A13 A2 A29  
INT CL<sup>7</sup> A01K 97/06  
Other: Online: WPI, EPODOC, JAPIO

(54) Abstract Title: Rig carrier

(57) The carrier (1) comprises a wall (2), resilient means (4) (2) and a retainer (6) (2) in spaced relationship such that, in use, one end of a rig can be attached to the resilient means (4) and the other end of the rig can be attached to the retainer (6) with the line of the rig (1) tensioned. The resilient means may comprise a spring mounted element (8) comprising a rod (16) which extends perpendicularly from the element. The wall may be tubular and, in use, accommodate a plurality of rigs.



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Rig CarrierDescription

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This invention relates to a rig carrier and especially, but not exclusively, to such a rig carrier for storing and transporting fishing rigs.

10

As used herein, the term "rig" refers particularly, but not exclusively, to fishing tackle comprising a length of fishing line connected at respective opposed ends to a hook and a weight, swivel or the like. The weight, swivel or the like may be replaced with a simple loop attached to, or constructed from, the length of line at the appropriate end thereof.

15

When fishing, it is important, for safety reasons, that sharp objects, such as hooks and the like, are stored and transported in a secure manner to prevent injury to a person using the equipment or any other person who unwittingly touches the equipment. It is also important to protect the equipment itself from damage, for example, compression damage or tangling of the lines.

20

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Traditionally, fishing rigs are kept in a flat box which normally has a closeable lid and a piece of foam or the like into which hooks are inserted to keep the hook points out of harms way.

30

There are several problems with this known type of rig carrier. Firstly, the line is often longer than the length of the box in which the rig is placed and often several rigs with different length  
5 lines are kept in the same box. Lines often therefore become tangled which can lead to piercing accidents whilst attempts are made to untangle the lines.

10 Secondly, any weight attached to the line may move about during transport damaging either the hook itself or any of the decoration, for example, feathers that are tied to the hook.

15 Thirdly, the nature of the foam, cotton wool or other material into which the hook is inserted means that hooks can get trapped making them difficult to extract. Tugging or otherwise trying to force the hooks from the foam damages the foam itself, thereby  
20 reducing the life span of the rig carrier, and can result in piercing accidents.

The object of the invention is to provide a rig carrier which eliminates, or at least substantially  
25 reduces, the problems associated with the traditional type of rig carrier currently in common use.

Accordingly, the invention provides a rig  
30 carrier comprising;

a wall,

resilient means associated with the wall; and

a retainer associated with the wall in spaced relationship with respect to said resilient means, the arrangement being such that, in use, one end of a rig can be attached to said resilient means and the other end of the rig can be attached to the retainer with the line of the rig tensioned.

The wall may be tubular and is preferably cylindrical, being made of any suitable material, for example a plastics material. Alternatively, the wall may be of any other suitable shape for example, flat or polygonal in cross-section.

The resilient means may comprise a spring-mounted element, such as a short rod. Any spring-mounted rod, or other spring-mounted element, is preferably positioned within an axially-extending elongate aperture which may be formed in the wall itself or may be formed within the wall of a second unit associated with one end of the wall. An outwardly extending axially elongate opening, such as a slot, may also extend from the axially-extending elongate aperture.

Preferably, a plurality of spring-mounted elements are arranged to be located movably within respective parallel axially-extending elongate apertures, in which case, there may be a corresponding number of axially elongate openings.

Preferably, a peg is attached to, and extends perpendicularly from, the or each spring-mounted

element contained within the or each axially-  
extending elongate aperture. The or each peg is  
arranged to extend through the outwardly extending  
axially elongate opening of the or each elongate  
5 aperture, such that, in use, one end of a rig can be  
attached thereto, allowing the peg to move along the  
elongate opening either under tension or on release  
of a tension.

10 Alternatively, any other suitable resilient  
means may be used for attachment of one end of the  
rig, for example, a spring or other elastic means.

The retainer may be in the form of an aperture,  
15 preferably elongate, extending through all or part  
of the thickness of the wall. Preferably there is a  
number of rows of such apertures extending from one  
end of the rig carrier, such that rigs of various  
lengths can be carried on the same rig carrier.

20

Alternatively, the retainer could be in any  
other suitable form, for example a protruding catch,  
bar, overhang or ring.

25 In order that the invention can be more fully  
understood, a preferred embodiment thereof will now  
be described by way of example only and with  
reference to the following drawings in which:

30 Figure 1 shows a side elevation of a rig  
carrier; and

Figure 2 shows a plan view of a section of the carrier along line II-II in Figure 1;

Referring to the drawings, there is shown an  
5 rig carrier indicated generally at 1 and comprising  
a wall in the form of a cylindrical tube 2,  
resilient means indicated generally at 4 and a  
retainer 6.

10 The cylindrical tube 2 can be made of any  
suitable material, for example, a plastics material.

The resilient means 4 is in the form of a  
plurality of spring-mounted rods 8 each positioned  
15 within an axially-extending elongate aperture 10  
which is formed in the wall of a second unit 12  
associated with one end of the cylindrical tube 2.

Each elongate aperture 10 has an outwardly  
20 extending axially elongate opening 14

A peg 16 is attached to and extends  
perpendicularly from each spring-mounted rod 8  
contained within the respective aperture 10. Each  
25 peg 16 is arranged to extend through its axially  
elongate opening 14, such that, in use, one end of a  
rig (not shown) can be attached thereto.

The retainer 6 is in the form of an array of  
30 elongate apertures 6 which extend through the  
thickness of the wall of the cylindrical tube 2.  
There is a number of rows of elongate apertures 6,



such that rigs of various lengths can be carried on the same rig carrier 1.

5 The apertures 6 are spaced evenly around the circumference of the cylindrical tube 2 and are located towards one end thereof opposite the resilient means 4.

10 The arrangement is such that, in use, one end, for example, the swivel end of a rig (not shown) can be attached to the peg 16 of a spring-mounted rod 8 and the other end of the rig, such as the hook end, can be located in a aperture 6, with the length of line of the rig tensioned by the spring-mounted rod 15 8, such that the point of the hook is located securely within the rig carrier 1.

20 The rod 8' is shown in a position when the swivel of a rig is attached thereto and the hook end of the rig is located in a corresponding aperture 6, with the length of line under tension. Thus, the spring (not shown) associated with the rod 8' is under compression. The remaining rods 8 are shown in their rest position with their associated springs 25 expanded to their fullest extent.

CLAIMS

1. A rig carrier comprising:

5 a wall;

resilient means associated with the wall; and

a retainer associated with the wall in spaced  
10 relationship with respect to said resilient means,

the arrangement being such that, in use, one end  
of a rig can be attached to said resilient means and  
the other end of the rig can be attached to the  
15 retainer with the line of the rig tensioned.

2. A rig carrier according to claim 1, wherein the  
wall is tubular, preferably cylindrical.

20 3. A rig carrier according to claim 1, wherein the  
wall is flat or polygonal in cross-section.

4. A rig carrier according to claim 1, 2 or 3,  
wherein said resilient means comprises a spring-  
25 mounted element.

5. A rig carrier according to claim 4, wherein the  
spring-mounted element is a short rod.

6. A rig carrier according to claim 4 or 5, wherein the spring-mounted element, is positioned within an axially-extending elongate aperture.

5 7. A rig carrier according to claim 6, wherein the axially-extending aperture is formed in the wall itself.

8. A rig carrier according to claim 6, wherein the  
10 aperture is formed within the wall of a second unit associated with one end of the wall.

9. A rig carrier according to claim 6, 7 or 8, wherein an outwardly-extending axially-elongate  
15 opening, such as a slot, also extends from the axially-extending elongate aperture.

10. A rig carrier according to any preceding claim, wherein a plurality of spring-mounted elements are  
20 arranged to be located movably within respective parallel axially-extending elongate apertures.

11. A rig carrier according to claim 10 comprising a corresponding number of axially elongate openings.

25

12. A rig carrier according to claim 6 or any claim dependent thereon, wherein a peg is attached to, and extends perpendicularly from, the or each spring-mounted element contained within the or each axially-  
30 extending elongate aperture.

13. A rig carrier according to claim 12, wherein the  
or each peg is arranged to extend through the  
outwardly extending axially elongate opening of the or  
each elongate aperture, such that, in use, one end of  
5 a rig can be attached thereto, allowing the peg to  
move along the elongate opening either under tension  
or on release of a tension.
14. A rig carrier according to any preceding claim,  
10 wherein the retainer is in the form of an aperture,  
preferably elongate, extending through all or part of  
the thickness of the wall.
15. A rig carrier according to claim 14 including a  
number of rows of such apertures extending from one  
end of the rig carrier, such that rigs of various  
lengths can be carried on the same rig carrier.
16. A rig carrier according to any of claims 1 to 13,  
20 wherein the retainer is in the form of a protruding  
catch, bar, overhang or ring.
17. A rig carrier substantially as hereinbefore  
described with reference to the accompanying drawings.



Application No: GB 0219483.5  
Claims searched: 1-17

Examiner: Paul Jenkins  
Date of search: 4 November 2003

## Patents Act 1977 : Search Report under Section 17

### Documents considered to be relevant:

Category	Relevant to claims	Identity of document and passage or figure of particular relevance	
X	1-16	US 1451256	(GARDNER) Whole document relevant
X	1 & 3-16	US 1715567	(PORTER) Whole document relevant
X	1-4, 10 & 16	US 742040	(KURTZ) Whole document relevant
X	1, 3-4, 10 & 14-16	US 1737376	(KNETTLES) Whole document relevant
X	1 & 3-16	US 5386662	(VADER) Whole document relevant
X	1, 3-7 & 10-16	US 2624973	(WILCOX) Whole document relevant
X	1, 3-5, 10 & 16	US 337593	(LEVISON) Whole document relevant
X	1-2, 4, 10 & 14-16	US 2658300	(SNYDER) Whole document relevant

### Categories.

X	Document indicating lack of novelty or inventive step	A	Document indicating technological background and/or state of the art
Y	Document indicating lack of inventive step if combined with one or more other documents of same category	P	Document published on or after the declared priority date but before the filing date of this invention
&	Member of the same patent family	E	Patent document published on or after, but with priority date earlier than, the filing date of this application

### Field of Search:

Search of GB, EP, WO & US patent documents classified in the following areas of the UKC<sup>v</sup>

A1A

Worldwide search of patent documents classified in the following areas of the IPC<sup>7</sup>.

A01K

The following online and other databases have been used in the preparation of this search report:

WPI, EPODOC, JAPIO